

1 **WHAT IS CLAIMED IS:**

2 1. A system for dynamically delivering service applications to a user of a mobile
3 computing device, comprising:

4 a proximity networking server (PNS) having an associated proximity zone, the
5 PNS comprising:
6 an access module for communicating wirelessly within the associated
7 proximity zone,
8 a registry of one or more service applications, each service application
9 having one or more associated GUI components, wherein the GUI
10 components are configured to be executable on a mobile
11 computing device;
12 wherein the PNS is configured to expose said one or more service
13 applications to mobile computing devices within the associated
14 proximity zone
15 a client application executable on a mobile computing device,
16 wherein the client application is operable to establish a wireless
17 connection between the PNS and the mobile computing device
18 when the mobile computing device is located within the proximity
19 zone,
20 wherein the client application is configured to retrieve a list of exposed
21 services from the PNS, and
22 wherein the client application is configured to automatically download and
23 execute the associated GUI component of an exposed service
24 application in response to a request by the user to access said
25 exposed service application, and
26 wherein the exposed service application is executed on the PNS, but is
27 accessible to the user through the associated GUI component
28 executing on the mobile computing device.

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30 2. The system of claim 1, wherein said wireless connection utilizes the UPnP
31 protocol.

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2 3. The system of claim 1, wherein the associated GUI component allows the user to
3 utilize the exposed service application by using remote procedure calls sent from the
4 client application to the PNS.

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6 4. The system of claim 3, wherein the PNS further comprises a translation module
7 for translating RPCs received from the client application into the appropriate format for
8 use by the exposed service application, and to translate results from the exposed service
9 application into an output format readable by the associated client GUI component.

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11 5. The system of claim 1, wherein all downloaded GUI components are deleted from
12 the mobile computing device when the mobile computing device leave said associated
13 proximity zone.

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15 6. A method for dynamically providing service applications to mobile computing
16 devices in a proximity networking framework, the proximity networking framework
17 comprising: a PNS having an associated proximity zone, the PNS operable to establish a
18 wireless data connection with a mobile computing device located within said associated
19 proximity zone, the method comprising the steps of:

20 registering a service application with the PNS, referred to hereinafter as registered
21 service application, wherein the step of registering the service application
22 with the PNS further comprises:
23 registering an execution component of a service application with the PNS,
24 the execution component operable to be executed by the PNS to
25 provide the functionality of the service application,
26 registering at least one associated GUI component of said registered
27 service application with the PNS, the GUI component configured
28 to be executed by a mobile computing device to provide a user
29 interface to the execution component, and

1 exposing said registered service application to said mobile computing device
2 coming into said associated proximity zone, referred to hereinafter as the
3 exposed service application;
4 providing to said mobile computing device the UI component of the exposed
5 service application;
6 executing the execution component of the exposed service application on the
7 server; and
8 permitting the mobile computing device to utilize the executing exposed service
9 application through the GUI component executing on the MCD.
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11 7. The method of claim 6 further comprises registering an associated access profile
12 of said registered service application with the PNS, and wherein said associated access
13 profile is used to determine whether said registered service application should be exposed
14 to said mobile computing device.
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16 8. The method of claim 6 further comprising retrieving information about MCD or
17 the user of the MCD, referred to hereinafter as retrieved information and using said
18 retrieved information to determine whether said registered service application should be
19 exposed to said mobile computing device.
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21 9. The method of claim 6 further comprising retrieving information about MCD or
22 the user of the MCD, referred to hereinafter as retrieved information and using said
23 retrieved information to customize said exposed service application to said mobile
24 computing device.
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